

VPI Immingham OCGT

Proposed new gas-fired power station on land off Rosper Road, South Killingholme, North Lincolnshire

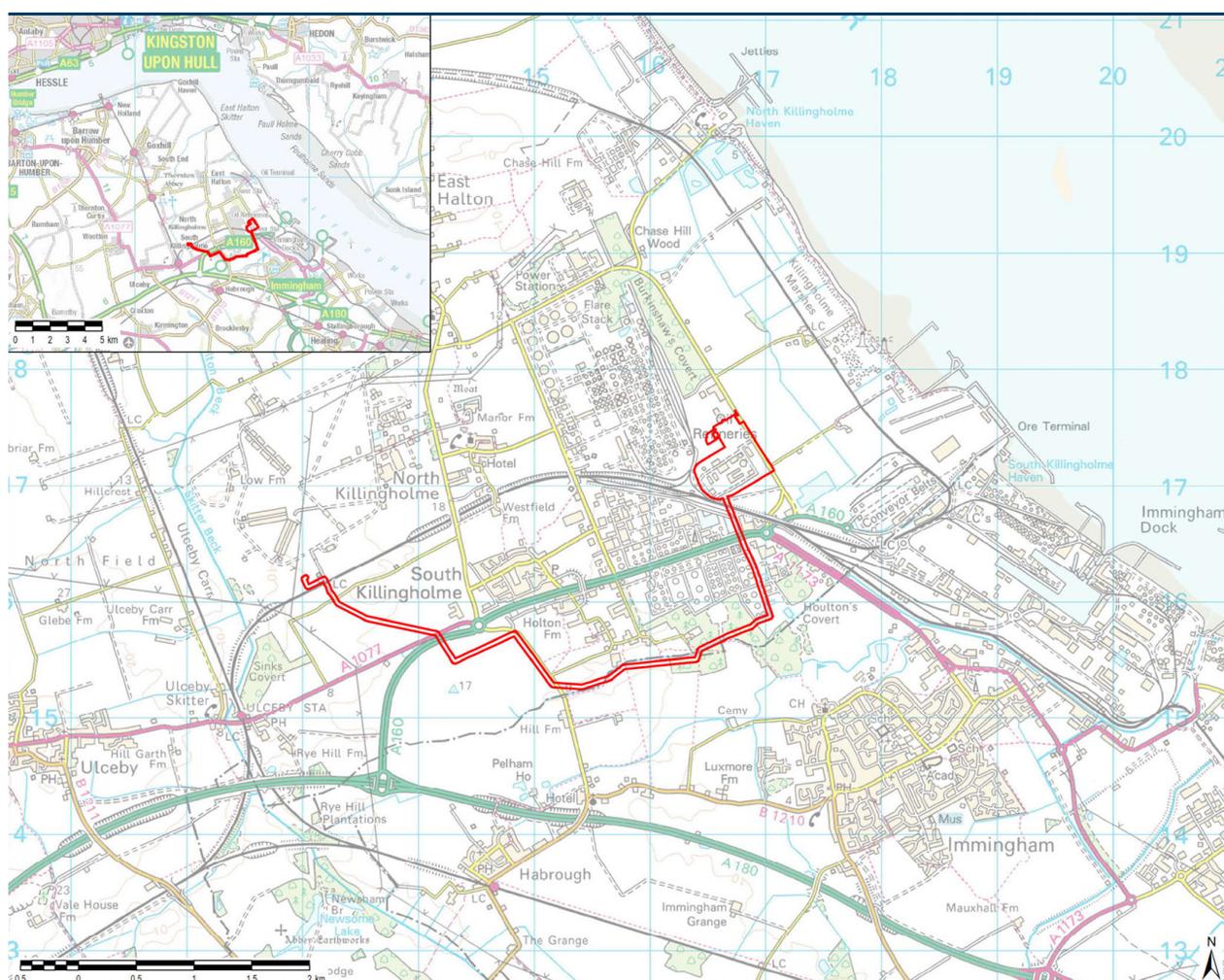
WHAT IS BEING PROPOSED?

We are proposing to build a new Open Cycle Gas Turbine (OCGT) power station with a generation capacity of up to 299MW. This power station will not generate electricity continuously but will be intended to meet short term high electricity demand and support the electricity grid at times when other technologies (e.g. wind and solar farms) cannot meet demand.

One of the main strengths of this type of plant is its ability to rapidly generate electricity when required and then switch off again. As a consequence of this, the power station is not expected to generate electricity for extended periods but will operate for a limited number of hours per year.

The power station will use Natural Gas from the National Transmission System ('NTS') as fuel, using a new pipeline that will run to the south of the existing CHP plant. This pipeline will connect to an existing pipeline at a new small Above Ground Installation ('AGI') at this location.

In addition, VPI is seeking rights to operate and maintain the existing pipeline running from the proposed new tie point to the point where it joins the in to the main NTS Natural Gas Feeder pipeline to the west of South Killingholme near the former North Killingholme airfield.



WHAT IS AN OPEN CYCLE GAS TURBINE?

An OCGT is a gas turbine that uses natural gas combusted in air to turn a drive shaft in an electrical generator to produce electricity for the National Grid.

The advantage of an OCGT is that it can be started quickly - in about 5 minutes, and can therefore be used to respond to high demand electricity peaks such as the morning and evening periods. It can also be used to back up intermittent renewable generation such as from wind and solar farms.

Due to the increasing reliance on intermittent renewable sources, the UK Government recognises that more of these plants are likely to be needed to ensure continuity of electricity supply.

